

IN THE CLAIMS

1. (Currently Amended) An automatic chemical analyzer capable of determining ~~the plural~~ components of a sample by using ~~the independent~~ reagents for the respective components, in which ~~the sections of conducting transfer, mixing and determination of the reagents, samples and reaction solution under analysis are shared in part or wholly~~ said analyzer is provided with a mechanism for pipetting plural kinds of reagents with a same reagent pipetting probe and a means for washing at least the reagent pipetting probe, and in order to prevent ~~the occurrence of errors of determination due to cross-contamination occurring among the reagents~~, the analyzer is provided with a function to set ~~the determination conditions for judging the presence or absence of~~ the cross-contamination and to make automatic judgment of the combination of items involving the cross-contamination,

wherein in order to prevent the occurrence of errors of determination due to ~~the generation of new contamination by variation of the state of the apparatus~~, the analyzer makes judgment on the presence or absence of the cross-contamination for combinations of the reagents, memorizes the judgment result in relation to the reagent combinations, compares the

result with those of the previous judgments, and when these results differ more than a certain degree, judges that the state of the apparatus has changed, and indicates it to the user.

2. (Currently Amended) An automatic chemical analyzer capable of determining ~~the plural components of a sample by using the independent reagents for the respective components, in which the sections of conducting transfer, mixing and determination of these reagents, samples and reaction solution under analysis are shared in part or wholly,~~ said analyzer is provided with a mechanism for pipetting plural kinds of reagents with a same reagent pipetting probe and means for washing at least the reagent pipetting probe, and in order to prevent the occurrence of errors of determination due to cross-contamination occurring among the reagents, the analyzer is provided with a function to set ~~the determination conditions for judging the presence or absence of~~ the cross-contamination and to make automatic judgment of the combination of items involving the cross-contamination, wherein in order to prevent the occurrence of errors of determination due to ~~the generation of new contamination by~~

variation of the state of the apparatus, the analyzer makes judgment on the presence or absence of the cross-contamination, memorizes its result, conducts judgment on the presence or absence of the cross-contamination in parallel with the determination of the sample, compares the result with those of the previous judgments, and when these results differ more than a certain degree, judges that the state of the apparatus has changed, and indicates it to the user.

3. (Currently Amended) A recording medium for recording ~~the operation of an automatic chemical analyzer capable of determining the plural components of a sample by using the independent reagents for the respective components, in which the sections of conducting transfer, mixing and determination of these reagents, samples and reaction solution under analysis are shared in part or wholly, said analyzer is provided with a mechanism for pipetting plural kinds of reagents with a same reagent pipetting probe and a means for washing at least the reagent pipetting probe, and in order to prevent the occurrence of errors of determination due to cross-contamination occurring among the reagents, the analyzer is provided with a function to set the determination~~

conditions for judging the presence or absence of the cross-contamination and to make automatic judgment of the combination of items involving the cross-contamination,

wherein in order to prevent the occurrence of errors of determination due to ~~the~~ generation of new contamination by variation of the state of the apparatus, there is installed an operation program according to which the analyzer makes judgment on the presence or absence of the cross-contamination, memorizes its result, compares the result with those of the previous judgment, and when the results differ more than a certain degree, judges that the state of the apparatus has changed, and indicates it to the user.

4. (New) An automatic chemical analyzer according to claim 1, which is provided with a function to input items for the judgment on the presence or absence of the cross-contamination or the certain degree as a criteria for the judgment on the presence or absence of the cross-contamination.

5. (New) An automatic chemical analyzer according to claim 1, which is provided with a function to register in

advance items for the judgment on the presence or absence of the cross-contamination or the certain degree as a criteria for the judgment on the presence or absence of the cross-contamination and to judge the presence or absence of the cross-contamination on the reagent combination that has been registered in advance in parallel with the determination of the sample.

6. (New) An automatic chemical analyzer according to claim 1, which is provided with a function to register an interval for measurements in advance and judge the presence or absence of the cross-contamination at the registered interval in parallel with the determination of the sample.

7. (New) An automatic chemical analyzer according to claim 1, which is provided with a function to register, in a processor, a measurement item(s) using a reagent(s) giving an influence, a measurement item(s) using a reagent(s) receiving the influence and the used amount of the reagent(s) giving the influence when said analyzer recognizes the presence of the cross-contamination.

8. (New) An automatic chemical analyzer according to claim 1, which is provided with a function to make a registration in a processor so that when said analyzer recognizes the presence of the cross-contamination with a combination of reagents, a process for preventing the cross-contamination that has been registered in advance in a processor is carried out in case of conducting an analysis with the combination of the reagents in the future.

9. (New) An automatic chemical analyzer according to claim 2, which is provided with a function to input items for the judgment on the presence or absence of the cross-contamination or the certain degree as a criteria for the judgment on the presence or absence of the cross-contamination.

10. (New) An automatic chemical analyzer according to claim 2, which is provided with a function to register in advance items for the judgment on the presence or absence of the cross-contamination or the certain degree as a criteria for the judgment on the presence or absence of the cross-contamination and to judge the presence or absence of the cross-contamination on the reagent combination that has been

registered in advance in parallel with the determination of the sample.

11. (New) An automatic chemical analyzer according to claim 2, which is provided with a function to register an interval for measurements in advance and judge the presence or absence of the cross-contamination at the registered interval in parallel with the determination of the sample.

12. (New) An automatic chemical analyzer according to claim 2, which is provided with a function to register, in a processor, a measurement item(s) using a reagent(s) giving an influence, a measurement item(s) using a reagent(s) receiving the influence and the used amount of the reagent(s) giving the influence when said analyzer recognizes the presence of the cross-contamination.

13. (New) An automatic chemical analyzer according to claim 2, which is provided with a function to make a registration in a processor so that when said analyzer recognizes the presence of the cross-contamination with a combination of reagents, a process for preventing the cross-contamination that has been registered in advance in a processor is carried out in case of conducting an analysis with the combination of the reagents in the future.